4629a



Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
, Director
State: Virgin 1s. Acc. No.
DESCRIPTIVE REPORT
Topographic Sheet No. 46298
LOCALITY
St. Croix
Christiansted Harbor
1084-125-126
CHIEF OF PARTY
G.O.Mattison

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

#7

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

State VIRGIN .ISLANDS
General locality ST. CROIX ISLAND
Locality CHRISTIANSTED HARBOR
Chief of party .G.C.MATTISON
Surveyed by M.Leff.C.K.Green, A.P.Ratti, H. E. Finnegan
Date of survey . April 3,1924February 4,1926
Scale . 1:10,000
Soundings in Feet
R.C.Rowse G.C.Mattison
Protracted by C.F.Ehlers . Soundings in pencil by H.E.Finnegan H.E.Finnegan
Inked by Verified by
Records accompanying sheet (check those forwarded):
Des. report, Tide books, Marigrams, 2 Boat sheets, a+b
5 Sounding books, Wire-drag books, Photographs.
Data from other sources affecting sheet

Remarks:

les Repr. 3 BS Liss J Sugnis 5 vols. sags BS. appets 4 126 atts

DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY.

E. LESTER JONES, DIRECTOR.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET OF CHRISTIANSTED HARBOR,

ST. CROIX, V.I.

S.S. RANGER

G.C. MATTISON, Commanding.

1924-1826

DESCRIPTIVE REPORT to accompany HYDROGRAPHIC SHEET No. 7

This work executed under Director's orders dated June 22,1923.

LIMITS:

Limits of sheet include Christiansted Harboe, approaches and inshore sounding along reefs from Salt River Point, eastward to a north and south line just east of Scotch Bank.

GENERAL DESCRIPTION OF COAST:

There is nothing to be added to the general description of the coast as given in the present Coast Pilot.

OUTLYING DANGERS:

There are no off shore dangers.

CURRENTS:

No tidal current was noted while sounding in this vicinity.

Out side the Light House Point, there was apparently a steady westerly current, which varied with the duration and strength of the Trade Wind. This current was never notably strong.

LANDMARKS AND PROMINENT FEATURES:

There is but one addition to the "prominent Features" as noted in the present Coast Pilot. There is a new stack at Central Sugar Factory. This new stack is reddish in color and is larger and more prominent than the old yellow stack which still stands. The new stack is called signal "red" on the hydrographic sheet.

SHOALS (INSHORE DANGERS)

In a special development of Scotch Bank the general characteristics; that is the depth curves, shoal spots etc. were found to be about the same as shown by old surveys. The shoalest sounding obtained on a branch of a visible coral head, reduced to three feet. Several soundings of four or five feet in this vicinity were found on coral, heads. Scotch Bank, showing green, is easily visible except when looking in the direction of the sun.

Two hundred meters northeast of triangulation station "ouisa is a shoal area about fifty meters in extent (E&W). The shoalest soundings were obtained near the eastern limit of the shoal on visible coral heads. A sounding reducing to one foot and three soundings reducing to two feet were obtained. The general depths near western end of this area are four to six feet.

Two hundred thirty meters NxE of triangulation station Louisa is another shoal about thirty meters in diameter. The shoalest sounding obtained was three feet. These two areas are separate shoals. The coral heads on each are visible and there is deep water between them.

A thirteen foot sounding was obtained very close to the east side of the channel between buoys number three and five. This sounding is six hundred ten meters N 7 W of triangulation station Louisa.

There is an eighteen foot sounding in the channel three hundred forty meters N 10 W of triangulation station Louisa.

Attention is called to the ten foot sounding three hundred ten meters, N 51 W of triangulation station Louisa. This sounding is close to NE end of Round Reef.

CHANNELS

The principal channel into Christiansted Harbor, which
lies between Scotch Bank and Long Reef, is marked by two day ranges
and buoys, and has a least depth of eighteen feet. This eighteen foot
spot is mentioned previously in this report, under shoals.

In turning to the westward around Great Middle Ground, the east and west range must be kept open to the southward. The north and west side of Round Reef is quite steep.

After rounding Round Reef and turning to southward, clearing buoy number seven there is a clear straight channel to anchorage. The west side of channel opposite Round Reef, shoals abruptly to six or seven feet. This area is called Hans Sorensens Ground.

Light draft vessels may use the channel to eastward of Round Reef. This channel has a least depth of fourteen feet and is buoyed.

There is a channel with a least depth of fourteen feet, south of Scotch Bank. Coming from the eastward, round Green Cay at a distance of about four immediate meters and steer 2370 (true) which brings the tangent of Pt. Louisa Augusta on range with the northwest tangent of Protestant Cay. Hold this range until the east and west range is on. Hold east and west range until the SE tangent of Protestant Cay opens up, then keep the east and west range slightly open to the northward until the main channel is reached. (Caution—A three foot shoal lies close to and on the south side of the east and west range. The shoal is mentioned under "Inshore Dangers"

ANCHORAGES:

The usual anchorage for vessels drawing over fifteen feet is about two hundred to two hundred fifty meters NE of Protestant Cay, in

confect draft may anchor on a line parallel with and one hundred fifty to we hundred meters eastward of Protestant Cay in depths from thirteen to twenty feet. Some of the smaller craft anchor SW of Protestant Cay in about eight feet of water.

CHANGES AND ADDITION TO THE COAST PILOT:

There is a new stack at Central Sugar actory. This stack is described above under "Landmarks and Frominent Features".

Soundings were taken (at a distance of about five feet off) along the face of the wharves in the harbor. These soundings show a depth of six to eight feet along the face of the stone quay mentioned in the Coast pilot as having a depth of twelve feet alongside. Attention is called to the note on the Hydrographic sheet in regard to the soundings along the face of the wharves.

This survey shows a least depth of eighteen feet in the main channel instead of twenty one feet as noted in the Coast Pilot.

on Scotch Bank a sounding reducing to 3.3 feet (Pos. #130 g)

was the least depth obtained by the hydrographic survey. In the record a sounding reducing to 2.3. feet id recorded.

DANGERS REPORTED:

The thirteen foot sounding, reported on previous charts to be in the channel between Hans Sorensens Grpund and Round Reef was not found by this hydrographic survey. However, by the aid of wire drag, a thirteen foot sounding was obtained in this channel on a very small spot, which was just visible from a skiff. All soundings in the immediate vicinity of this spot were about sixty feet. A seaman, diving down, examined this spot and found it to be a submerged buoy, held in place by a chain and

anchor. Later the Harbormaster of Christiansted had this buoy removed. SURVEY METHODS:

In general a system of 100 meter lines were carried out on the sheet. But Scotch Bank, the channel and the harbor anchorages were developed more closely. On Scotch Bank numerous detached soundings were taken on visible coral heads.

The hydrography was done using, Mitchell, Tender, Motor Dinghy and pulling dinghy, as shown by table of statistics. All soundings were taken by hand lead, except a few obtained by sounding machine, while using Mitchell. Those soundings obtained by sounding machine are noted in the sounding record.

All work in 1925 was done with the wire drag tender, and a trail board was used at all times to obtain a speed slow enough for development.

CHANGES IN SHORE LINE:

No changes in the shore line were found by this survey.

Respectfully submitted.

March 17,1927 Forwarded

Mattian Elg.). S. Player

STATISTICS
HYDROGRAPHIC SHEET No. 7

	Date	Letter	Vol.	Pos.	Sdga.	Miles	Vessel.
	4- 3-24	&	1	71	387	12.9	Mitchell
· ·	4- 4-24	ъ	1	87	241	11.9	Mitchell
	5-23-24	C	1	20	128	2.1	Tender
	6- 6-24	đ	1	152	682	5.2	Tender
	6- 6-24	đ	4	16	55	2.2	Tender
	6- 6-24	a.	2	84	704	9.5	Motor Dinghy
	7- 2-24	ъ	2	113	574	6.0	Motor Dinghy
	7- 2-24	е	4	97	282	14.0	Tender
	7-10-24	C	2	84	559	3.6	Motor Dinghy
	7-10-24	c	3	15	84	0.9	Pulling Dinghy
	7-10-24	f	4	92	317	13.0	Tender
	8-21-25	g	4	134	467	9.3	Tende r
	8-24-25	h	4 .	117	227	4.4	Tender
	8-25-25	j	5	186	675	10.4	Tende r
	2- 3-26	k	5	155	408	8.0	Tender
	2- 4-26	1	5	30	82	1.7	Tender
173		Totals-		1453	5872	115.1	

Area = 3.9 sq. stat. miles.

Soundings in feet.

Tide gauge and staff on Marine Wharf at Christiansted.

Plane of reference - M.T.L. - 0.5 feet = 2.8 reading on gauge.

Lowest tide observed = 2.4 reading on tide gauge.

Highest tide observed= 4.1 reading on tide gauge.

LIST OF SIGNALS

HYDROGRAPHIC SHEET NO. 7

	_Name	Latitude	Longitude	Bemarks.
_ •	Aee	17-45 T	6 494 0 T	Range Beacon
	Ant	17-45 288	64-42 241	Corner of Fort
Ç)Bath	17-44 1744	64-42	Bath house
٠.	Bee	17-45 T	6 4-4 0 T	Range Beacon
	Bout	17-44 T	64-40 т	Mi ji
	Bul Bul -	- 17-44 1756	64-42 600	Corner of wharf
	Cab	17-47 620	64-45 1700	Rock off Salt River Pt.
	Cay	17-45 1566	6 4-4 0 670	W.W.
	Cent	17-45	64-42 T	White stack.
	Clock	17 -44 T	64-42 T	Clock tower
	Cow	17-45 1374	64-43 1073	?
	Cup	17-44 т	64-42 T	Spire
	Des	17-45 T	64-42 т	Ranger beacon
	Dok	17-44 1613	64-42 66	N.W. corner of dock
	Fac Fac	17-45 277	64-42 1477	Bathhouse —
	Flas Dly -	- 17-45 155	64-42 314	Flagpole
0	Gol	17-45 606	64-45 440	Mill
	Green	17-46 T	64-59 T	Highest Point.
:	Har	17-45 6	64-42 1294	End of dock
	Hog	17-45 1415	64-40 1440	W.W.
ži.	HOW HOW	17-45 22 236	64-42 341	Small house
•	Hoy	17-45 Т	6 4-4 0 T	Mill
.: •	Jon	17-45 T	64-44 T	Chimney
~.	Ju	17-46 T	6 4-44 T	Chimney
1	Ĺil	17-45 T	64-45 T	Chimney

	- •		•		_	<u> </u>
	Louis	17-45	T	64-41	T	Light
	Nor	17-45	779	64-41	901	W.W.
•	Orange	17-44	T	64-43	T	Mill
	Out	17-45	1190	64-43	822	?
_	Prin	17945	T	64-44	T	Chimney
	Rade	17-44	T	64-42	T	Flagpole
	42E	17-44	1764	64-42	323	Derrick
	nat Rat-	- 17-44	1783	64-42	403	Corner of wharf
	Red	17-45	217	64-42	1636	Red stack
	Run	17-45	867	64-43	608	Palm tree
	Salt	17-46	T	64-44	T	Knoll
	See	17-45	T	64-42	T	Range beacon
	Sho	17-45	1352	64-40	1687	W. W.
	Stump	17-45	170	64-41	1527	W.W. stump
	Tip Tip	17-46	1033	64-44	577	Point & T. p.
	Two	17-41	T	64-41	T	Range, beacon
	War	17-45	76	64 -2 2	288	End of dock
	Wash	17-45	959-	64-41	57	W.W.
	Wel	17-44	T	64-41	T	Mill

RECOVERABLE OBJECTS

HYDROGRAPHIC SHEET No. 7

**************************************	**************************************
Ba th	Bathhouse at Fort
Bul	Corner of wharf
Cab	White Horse Rock off Salt River Point.
Dok	N.W. corner Marine Corp. dock.
Fac	Bath house on dock Central Factory.
Flag	Flagpole on house, Protestant Cay.
Har	End of dock
How	Small house west side Protestant Cay.
Rag	Herrick on main wharf.
Rat	Corner of wharf.
Red	Red stack Central Factory.
Tip	Tip of Point, E of Judith's Fancy.
War	End of dock, E. side Protestant Cay

PLANE TABLE POSITIONS

HYDROGRAPHIC SHEET NO. 8

	-		
•	NE	3me	Description
		nt	Topo. wignal
•	Ce	ay (Topo. signal
	G	ol	Golden Rock Mill
	н	og	Topo, signal
	No	or	Topo. signal
	Sì	ho .	Topo. signal
	We	nsh (Topo. signal

HYDROGRAPHIC SIGNALS. HYDROGRAPHIC SHEET No. 7

	Name	<u>Description</u>	Method:
C	Cow	Transferred from boat sheet no description.	Y
	Out	Transferred from boat sheet no description	?
	Run	Tall Palm Tree	s.c.
	Stump	W.W. on stump E side of Hbr.	S.C.

Note:

S.C.= semtant cuts from boat positions.

Division of Hydrography and Topography:

Division of 'Charts:

Tide reducers are approved in 5 volumes of sounding records for

HYDROGRAPHIC SHEET

Locality: Virgin Islands

Chief of Party: G. C. Mattison Plane of reference is MLW 2.9 ft. on tide staff at Christiansted Harbor St. Thomas.

Condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of each day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

hief, Division of Tides and Currents.

4629 a typhographic sheet be. ----

The following statistics will be submitted with the cartegrapher's report on the sheet:

Date: July 25, 1928.
Cartographer: S. Pisegari

Note: The above date represents work from 3 of the 500ls, + is fairly representative of the more difficult phases inherents of this sit. This data represents 4 days for straights cheeking + 3 days for inhering there was consumed 18 days in miscellaneous work of the sheet of which a goodly portion consisted of solving problems and clarifying obscurities implying incorrect or insufficient information.

Report on Hydrographic Sheet 4629a
Sh. Broix Island - Christiansted Marbon.
Surveyed in 1924, 1925, 1926.
Instructions dated June 22, 1923.

Shief of Party G.C. Mattison.
Surveyed by M. Leff, C.K. Green, a. P. Patti, A. E. Finnegan.
Protracted by P. C. Powse, C. T. Ehler, H. E. Finnegan.
Soundings plotted by G. C. Mattison, N. E. Finnegan.
Verified and inked by G. Pisegari.

- 1. The records conform and the plan and character of development fulfill the requirements of the General Instructions.
- 2. The plane and extent of development cover the specific Instructions.
- 3. The sounding line crossings were satisfactory with the exception of sounding lines between 692 to 1/2 (green). Position 10 a as recorded is evidently erroneous by time course, and crossings. It was deemed wise to omis the soundings. The area is sufficiently covered by other sounding lines.
- 4. Ottention should be called to the scale of the sheet, 10/0,000. I hough the Specific Instructions states that the sheet be made on a 100 10,000 scale, it could easily have been made on a 100 5,000 scale and thus the larger scale should have avoided practically all of the defects and difficulties that true wherever on the 1410,000 sheet, as well as avoided a loss of numerous soundings which could not be plotted due to compactness.

a major portion of the sheet. The ink on the sheet in numbers in numerous cases was practically faded out and it became necessary to suprotress positions just to locate a position where lines got confusing.

Owing to the compactness of the pencilles soundings, it was necessary to reproteact as much as 90% (and in some cases more) of the work where such compactness existed, it being impossible to follow the positions otherwise. In the more open work the reproteating was about the

average except where the lines got confusing or the inted positions himsen fades out.

Difficulty was encountered in the work of Vol. 2, 14 (blue). The field party evidently was having trouble and the pletting of several sounding lines were erroneous. Changes were made by the Office where a proper solution looked feasible and in most cases acceptance by the Office of the field party's corrections. The sources of errors were mainly due to swingers, weak fixe, wrong signals, errors in the reading of angles, against which appear corrections by the field party.

6. The wharf near signal bent was modified to conform with the information recorded in the sounding record, vol. 5, page 38, positions 118 k to 120 k, inclusive.

Position 118 k is recorded as being breated at the end of the wharf and 119 k and 120 k at the south side of the wharf, four feet from its face. The original plotting of the wharf by the field party does not conform with the information recorded as mentioned above. The wharf as located on the topographic sheet was considered erroneous. Furthermore, The breations of positions 118 k, 119 k, 120k are determined by fiplomating 2 triangulation stations signals and one topographic signal. The flotting of these signals on this sheet check satisfathily with the computations and Ispographic thut #3799.

In Vol. 5, page 34, a number of soundings (positions) 73k to 89 k) were taken 5 feet from the face of the docks. The soundings could not be plotted on this sheet, owing to its small scale. There also appears to be insufficient data on hand to locate the what docks accurately which might be considered on a large scale. This information is to be referred to the Coass Pilos.

7. Character and seep of the surreying; major part, good; remainder, fair. Field drapting; good.

8. Reviewed by G. Praigan July 23, 1928. Dut impeted a. J. Shalants, July 26, 1928.

EXTRACT FROM REVIEW OF HYDROGRAPHIC SHEET No. 4629a.

6. The wharf near signal "Cent" was modified to conform with the information recorded in the sounding record, vol. 5, page 38, positions 118k to 120k, inclusive.

Position 118k is recorded as being located at the end of the wharf and 119k and 120k at the south side of the wharf, four feet from its face. The original plotting of the wharf by the field party does not conform with the information recorded as mentioned above. The wharf as located on the topographic sheet was considered erroneous. Furthermore, the locations of positions 118k, 119k, 120k are determined by fixes using 2 triangulation station signals and one topographic signal. The plotting of these signals on this sheet check satisfactorily with the computations and Topographic Sheet #3799.

In vol. 5, page 34, a number of soundings (positions 73k to 89k) were taken 5 feet from the face of the docks. These soundings could not be plotted on this sheet and therefor omitted owing to its small scale.

There also appears to be insufficient data on hand to locate the-wharf- docks accurately which might be considered on a large scale. This information is to be referred to the Coast Pilot.

Form 504								
DEPARTMENT OF COMMERCE								
U. S. COAST AND GEODETIC SURVEY								
State: Virgin 1s.								
DESCRIPTIVE REPORT								
Hydrographic Sheet No. 4629b								
WIRE DRAG								
LOCALITY								
St. Croix								
Christiansted Harbor								
•								
<i>192</i> 4 '25								
102-1 23								
OHIEF OF PARTY								
G.C. Mattison								

Part March

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

Wire Drag Sheet #7

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4629b

State Virgin Islands
General locality . St. Croix . Island
Locality Christiansted Harbor
Chief of party G.C.MATTISON
Surveyed by A.P.Ratti-C.K.Green
Date of survey . July 3,1924 - October 19,1925
Scale
Soundings in
Plane of reference M.T.L. Q.5 ft
Protracted by R.C.Rowse . Soundings in pencil by
Inked by R.C. Rowse . Verified by
Records accompanying sheet (check those forwarded):
Des. report, Tide books, Marigrams, Boat sheets, 2+6
Sounding books, Wire-drag books, Photographs.
Data from other sources affecting sheet
Rydrographic sheet of same area.
and the control of th

Remarks: Some of end launch and rough tender records will accompany sheet #5, as the records have some work from each sheet.

DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

E. LESTER JONES, DIRECTOR.

VIRGIN ISLANDS

A DESCRIPTIVE REPORT to accompany

WIRE DRAG SHEET #7 (VIRGIN ISLANDS)

1924-1925

S.S. RANGER

G.C.MATTISON, CHIEF OF PARTY.

DESCRIPTIVE REPORT to accompany WIRE DRAG SHEET # 7.

This work was executed under Director's orders dated June 22, 1923.

A descriptive report has already been submitted for the hydrographic sheet covering the same area, and contains necessary descriptive data.

The area as dragged included the harbor of Christiansted and the coastline outside the reef from Salt River Point on the west to a junction with sheet 5 on the east, and extending out beyond the 100 fathom curve.

The wire drag work as originally done was thought to be complete, and after plotting up the smooth sheet additional work was done to cover splits found. After the final plotting and careful examination of records, it was found necessary to reject some of the positions due to the fact that the launches both evidently stopped at the same time. This left splits in the harbor. It is highly probable that the splits are not as large as shown, as the drag was manouvered forth and back in the harbor and no record kept. Owing to the limited space and the short drag necessary, the drag was manipulated considerably at the beginning and end of lines, and a great deal of area was actually covered several times.

Several shoals were found to have depths less than obtained in the hydrographic survey. A sunken buoy was found in the inner north and south channel with a least depth of 13 feet. This was probably the cause of the notation on the hydrographic office chart regarding a reported depth of 13 feet. The buoy was later removed by the harbormaster and the same area dragged to a depth of 22 feet.

A depth of $11\frac{3}{4}$ feet was found 750 meters 333° true from Fort Louisa Light.

A depth of $7\frac{1}{12}$ feet was found 430 meters 330° true from Fort Louisa Light.

A depth of 15 feet was found 350 meters 331° true from Fort Louisa Light. This shoal extends in a southeasterly direction with a depth of 20 feet on the east and west Channel, Ranger. A depth of 17 feet was found 30 meters east of the 15 foot sounding.

Shoal dopths were also found on Scotch Bank, and are as shown on the wire drag sheet.

Standard wire drag equipment was used with launches MARINDIN, MITCHELL and TENDER M4. The tender was used as a drag launch at times when operating in close waters.

Respectfully submitted.

G.C.Mattison, H. & G. Engineer

Forwarded
March 22,1927
Mattisa
Edg. S. S. Range.

STATISTICS
Wire Drag Sheet #7.

Date	Letter	Vol	Drag Length	Posi tions	Miles Stat.	Soundings.
July 3,1924	A	1	2400	27	1.9	0
July 3,1924	A	1	400	11	0.5	0
July 8,1924	В	1	300	24	0.8	2
July 9,1924	C	1	2400	33	3.2	ı
July 9,1924	C	1	300	5	0.3	2
July 11,1924	D	1	300	14	0.5	2
July 14,1924	B	1	500	29	1.0	0
July 18,1924	F	1	1500	23	2.4	1
July 18,1924	F	1	2100	10	0.7	5
Sept. 8,1925	G	1	300	16	0.3	1
Sept.10,1925	Н	1	300	10	0.3	0
Oct. 9,1925	J	2	2500	7	0.9	0
Oct. 9,1925	J	2	1000	14	0.7	0
Oct. 19,1925	K	2	300	4	0.2	0
Oct. 19,1925	K	2	800	231	0.1	0

Area covered = 3.0 sq. stat. miles.

Soundings in feet.

Tide gauge and staff on Marine Wharf at Christiansted.

Plane of reference = M.T.L. - 0.5 foot=2.8 reading on gauge.

Lowest tide observed= 2.4 reading on gauge.

Highest tide observed=4.1 reading on gauge.

List if signals Sheet #7 Wire Drag.

Name	Lati	tude	M	Longi	tude	M	Remarks.
Aee	17	45	T	64	40	T	Range Beacon
Ant	17	45	288	64	42	241	Corner of Fort.
Bee	17	45	T	6 4	40	T	Ranger Beacon.
Bout	. 17	44	T	64	40	T	Mill
Cay	17	45	1566	64	40	670	W.W.
Jent	17	45	T	64	42	Ţ	White stack.
Clock	17	44	T	64	42	T	Clock Tower
Cup	17	44	T	64	42	T	Spire
Dok	17	44	1613	64	42	66	N.W. Corner Dock.
Green	17	46	T	64	39	T	Highest Pt.
Ноу	17	45	T	64	40	T	Mill
Jon	17	4 5	T	64	44	T	Chimney
Ju	17	46	T	64	44	T	Chimney
Lil	17	45	T	64	43	T	Chimney
Louis	17	45	T	64	41	T	Light `
Orange	17	44	T	64	43	T	Mill
Prin	17	45	T	64	44	T	Chimney
Rade	17	44	T	64	42	T	Flagpole
Red	17	45	217	64	42	1635	Red stack.
Salt	17	46	, T	64	44	Ţ	Knoll '
See	17	45	T.	64	42	T	Range Beacon
Sho	17	45	1352	64	40	1687	W. W.
Stump	17	45	170	64	41	1527	W.W. Stump
Tip	17	46	1033	64	44	577	Point
Two	17	45	Ţ	64	41,	Ţ	Range Beacon.
Wel	17	44	T	64	41	T	Mi11

Lists of Recoverable Objects.
Plane Table Positions.
Hydrographic Signals,
Sheet # 7, Wire Orag.

- :	Recoverable Objects.		Hydrographic Signals.			
: " : 7	Name	Description.	*	Name De	escription.	Method
	Dok	NW Corner Marine Corp. Wharf.	•	Stump WW	on stump, E side	of Hbr. S.C.
	Red	Red stack, Central Factory.	*			
7	Tip	Tip of Point, E. of Judith's Fa	ncy.*	s.c.=	Sextant cuts fro positions.	m boat

Plane Table Positions.

Name	Description.			
Ant	Topographic	signal		
Cay	Topographic	signal		
Sho	Topo graphic	signal.		

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in

4 volumes of sounding records for

HYDROGRAPHIC SHEET 4629 B

Locality: VIRGIN ISLANDS.

Chief of Party: G. C. Mattison Plane of reference is MIW

2.9 ft. cn tide staff at Christiansted Harbor

5.5 ft. do St Thomas

Condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of each day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Chief, Division of Tides and Currents.

Review of Wire Drag Survey, H. 4629b.
Christiansted Harbor, St. Croix I., Virgin Islands.
Surveyed in 1924 and 1925.
Instructions dated June 22, 1923. (Ranger).

Chief of party - G. C. Mattison.

Surveyed by - A. P. Ratti, C. K. Green, H. E. Finnegan.

Drag work and soundings plotted by - V. A. Powell, R. C. Rowse.

Soundings and groundings verified and inked by - R. L. Johnston.

1. The records conform to requirements.

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- 2. The plan and extent of the survey satisfy the specific instructions.
- 3. No area and depth tracing was prepared by the field party and none was made in the office. In the areas offshore the drag depths can be readily read but in the entrance channel south of black can buoy No. 1, it is difficult to follow the various drag strips. A study of this area showed that a 24 foot drag strip, (pos. 5b to pos. 14b) was the deepest depth to have passed over the entrance range. This strip was replotted on tracing paper and has been filed in the wire drag record for b day.
- 4. The junction with the wire drag survey, H. 4652b is not satisfactory as there are several small splits.
- 5. No soundings shown on the chart are positively disproved by the drag work, however an 18 foot sounding shown on Chart 935 in Lat. 17°45'.6, Long. 64°41'.7 barely falls within the limits of a 24 foot drag strip. This sounding is plotted in accordance with the records of H. 4629a (pos. 55g to pos. 56g) but it is noted that there were a large number of corrections to the original soundings on that day, indicating the possibility of errors by either the leadsman or the recorder. This 18 foot sounding is not the result of an intensive examination and is unconfirmed by any cross line, but it is so close to the limits of the 24 foot drag strip that there is not sufficient evidence to discredit it.
- 6. The plotting of drag limits, subdivisions and overlaps were not verified in the office except where they affected groundings.
- 7. This survey would be fairly complete if it were not for the splits inside the harbor, caused by the rejection of some of the drag positions. The area has been closely covered by the hydrography on H. 4629a and additional work for the purpose of covering these splits is not considered necessary.

The doubtful 18 foot sounding, described in par. 5, should be further examined at some future time.

8. Considering the difficulties encountered in attempting to drag through the narrow channels and the complications resulting in plotting the probable path of the drag, it is felt that this work should be used as a means of checking the least depths found by the sounding party, but it should

н. 4629b-2.

not be held to be conclusive that the area had been swept clear of all obstructions within the limits of the drag as plotted on this sheet.

9. Reviewed by - R. L. Johnston.

L.O. Sollent.

Examined and approved:

L. O. Colbert,

- 5

Chief, Section of Field Records.

Chief, Division of Charts.

Chief, Field Work Section.

Chief, Division of H. & T.